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(71) Applicant (for all designated States except US): AAL-BORG UNIVERSITET [DK/DK]; Fredrik Bajers Vej 5, DK-9220 Aalborg Ø (DK).

(72) Inventors; and

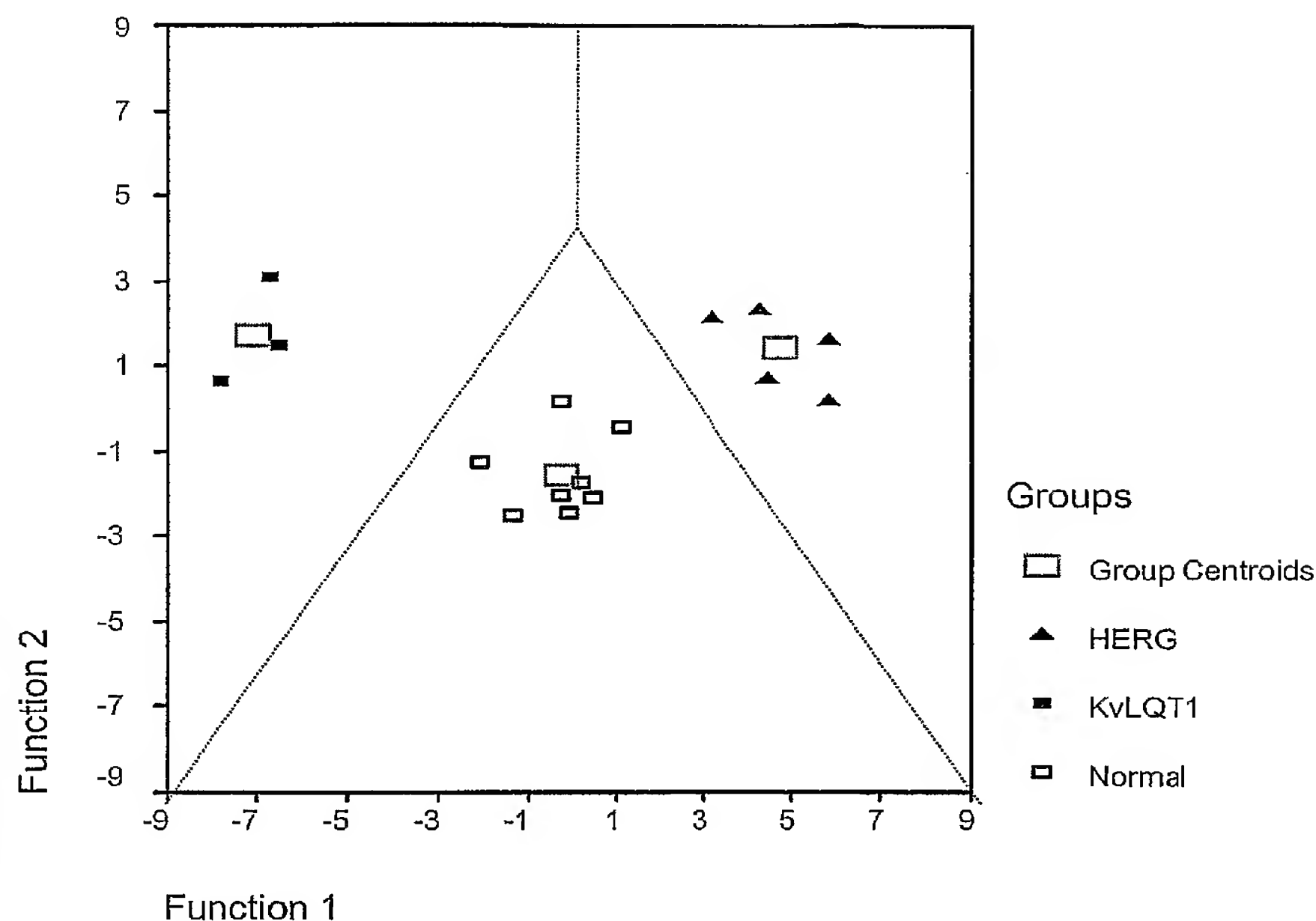(75) Inventors/Applicants (for US only): HARDAHL, Thomas, Bork [DK/DK]; Fredericiagade 32, Kld.,

DK-9000 Aalborg (DK). GRAFF, Claus [DK/DK]; Sigrid Undsetsvej 242A, DK-9220 Aalborg Ø (DK). ANDERSEN, Mads, Peter [DK/DK]; Feggesendvej 36, st.tv., DK-9220 Aalborg Ø (DK). TOFT, Egon [DK/DK]; Fredrik Bajers Vej 7D, DK-9220 Aalborg Ø (DK). STRU-IJK, Johannes, Jan [DK/DK]; Fredrik Bajers Vej 7D, DK-9220 Aalborg Øst (DK). KANTERS, Jørgen, Kim [DK/DK]; Stentevej 8, DK-3140 Ålsgårde (DK).

(74) Agent: PATRADE A/S; Fredens Torv 3A, DK-8000 Århus C (DK).

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(54) Title: A SYSTEM AND A METHOD FOR ANALYSING ECG CURVATURE FOR LONG QT SYNDROME AND DRUG INFLUENCE

Groups

□ Group Centroids
▲ HERG
■ KvLQT1
□ Normal

(57) Abstract: The present invention relates to a system or a method for analysing drug influence on ECG curvature and Long QT Syndrome where at least one among a number of different parameters is isolated, which system has a input means connected to an ECG source, where the different parameters of a received ECG curvature and indicated and/or isolated and for indicating possible symptoms which relates to or are indications of certain diseases, where said diseases are known to influence the ECG curvature. The aim of the invention is to achieve a system and a method for diagnosing Long QT Syndrome in an objective, fast and effective way by indication of a number of symptoms derivable from an ECG curve. Further aim of the invention is to achieve an effective test of drug influence on ECG curvature. This can be achieved with the system previously described if a first number of selected parameters is combined in at least a first mathematical analysis, where the result of the analysis can be represented as a point in a coordinate system comprising at least one axis where the system can compare the actual placement in the coordinate system with a number of reference parameters stored in the system for indicating symptoms or diseases having influence on the ECG curvature, where the system analyses the QT curvature of the ECG curvature for indicating Long QT syndrome. Hereby, it is achieved that any symptom of hereditary or acquired Long QT Syndrome having an indication (influence) in the ECG curvature can be detected in an objective, automated and very fast way.

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